

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 February 2001 (08.02.2001)

PCT

(10) International Publication Number
WO 01/09156 A1

(51) International Patent Classification⁷: **C07H 21/02, 21/04**

(74) Agents: **SWANSON, Barry, J. et al.; Swanson & Bratschun, L.L.C., Suite 330, 1745 Shea Center Drive, Highlands Ranch, CO 80129 (US).**

(21) International Application Number: **PCT/US00/20397**

(22) International Filing Date: **26 July 2000 (26.07.2000)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:
09/363,939 **29 July 1999 (29.07.1999) US**

(71) Applicant (for all designated States except US): **NEXSTAR PHARMACEUTICALS, INC. [US/US]; Suite 200, 2860 Wilderness Place, Boulder, CO 80301 (US).**

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PAGRATIS, Nikos [US/US]; 5813 North Orchard Creek Circle, Boulder, CO 80301 (US). LOCHRIE, Michael [US/US]; 3374 Creekview Court, Hayward, CA 94541-3581 (US). GOLD, Larry [US/US]; 1033 5th Street, Boulder, CO 80302 (US).**

(81) Designated States (national): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.**

(84) Designated States (regional): **ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).**

Published:

— *With international search report.*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 01/09156 A1

(54) Title: **HIGH AFFINITY TGF β NUCLEIC ACID LIGANDS AND INHIBITORS**

(57) Abstract: Methods are described for the identification and preparation of high-affinity nucleic acid ligands to TGF β 2. Included in the invention are specific RNA ligands to TGF β 2 identified by the SELEX method. Also included are RNA ligands that inhibit the interaction of TGF β 2 with its receptor.